

A I P A

December 6, 1960.

"Time and tide waits for no man"!

Here we are at the end of another year, and another DX year. We hope that each and every AIPA'er has enjoyed their year's membership, and have derived some helpful information, tips, and news through the pages of these bulletins.

At any rate, we know that almost all have received a little chuckle now and then because of a misspelled word here and there, also a wrong phrased wording of a sentence, so all well and good. No harm done!

DX reports here from all parts of the country through out the year show that certain parts of the country have been more fortunate in DXing. For example- The far north west and north east has showed a poor DX year, where as, the south reports a good year. This is what makes our hobby an interesting one.

Cards and letters are coming in fast and furious now as to the location for our 1961 National Convention. The majority are for Royal Oak, Mich. Your choice is definately going to be up to you, so lets here from all who plan to attend.

We have another Tape-recorder fan to add to your list- Robert Berg 1324 Noble St., Norfolk 3, Va. (Can handle both speeds, 3-3/4 & 7 1/2) Bob would like the convention tapes that are now in route- will the last names on list mail them to him.

NOTE- I am missing the Convention tape of Gallipolis, Ohio !! will the party who has it please notify me !!!

Slowly but surely our Tape recorder fans are increasing, thus making it more and more interesting. Convention tapes, personal messages etc. are playing a major part in bringing club members closer together. This too, is a hobby that you will find worth the price of a recorder.

Dee Johnson's nice drawing above expresses our Greetings !

Art Collins.

TELEVISION DX RECORDS CH. 5

NEW CH. 2 RECORDS

CALL LOCATION DATE DIST.

CALL LOCATION DIST.

EH

WKRQ Mobile, Ala.	1140 JC	WUSN Charleston, Sc	2400
KPHO Phoenix, Ariz.	6-11-57 1350 JD	XEWC Guadel Mex.	2500
KNAC Fort Smith, Ark.	6-11-57 1340 MF		DJo
*KTLA Los Angeles, Cal.	1315 EH	CFCJ R. ARTHUR	1550 DJo
KFIX San Francisco, Cal.	7-26-57 2400 DR	KNXR Los AN.C.	2195 BN
*KREX Grand Junction, Col.	5-21-57 1050 DJa	KLRJ Los V. N.	1400 Tie
*KCSJ Pueblo, Colo.	1355 NE	BJ RH	DJo
WTTG Washington, D. C.	5-12-55 1100 ES	KOTI Kl. Fa. Or.	1750
*WFTV Palm Beach, Fla. 1	1285 FD		DJa
*WAGA Atlanta, Ga.	5-24-60 1856 MF	WTHS Miami F.	1200
WNBQ Chicago, Ill.	5-24-56 1100 JD	(Tie) BJ	ES
WOI Ames, Iowa	5-13-58 1500 DJo	KB0I Boise Id.	1470 DJa
KALB Alexandria, La.	5-22-57 1800 RB		
WABI Bangor, Me.	7- 7-58 1500 DR		
WNEM Bay City, Mich.	2250 RC		
KSTP Minneapolis, Minn.	1300 GS		
KCMO Kansas City, Mo.	5-13-58 1500 DJo		
KSD St. Louis, Mo.	7-13-55 1400 MF		
*KFBB Great Falls, Mont.	6-10-57		
*KHAS Hastings, Neb. (TIE)	DR 1250 ND		
WNEW New York, N. Y.	5-31-55 1275 ES		
WPTZ Plattsburg, N. Y.	2400 RC		
WROC Rochester, N. Y.	2- 1-55 1050 ES		
WRAL Raleigh, N.C.	5-22-57 1000 ES		
KFYR Bismark, N. D.	1350 GS		
WLWT Cincinnati, Ohio	6-10-57 1400 JD		
WEWS Cleveland, Ohio	2200 RC		
*KOCO Enid, Okl.	8-17-58 1450 DJo		
KBES Medford, Oreg.	5-13-58 1150 JD		
WCSC Charleston, S. C.	2- 1-55 1050 ES		
WMCT Memphis, Tenn.	5-25-56 1450 JD		
WEAF Fort Worth, Tex.	5-25-56 1450 JD		
KENS San Antonio, Tex.	5-22-57 1700 DJo		
KRGV Weslaco, Tex.	5-22-57 1630 MF		
*KSL Salt Lake City U. (Tie)	PH BD 1270 DJa		
WCYB Bristol, Va.	6- 9-57 1000 GG		
KING Seattle, Wash.	1020 GS		
KFBC Cheyenne, Wyo.	1320 NE		
WORA Mayaguez, P.R.	7-21-57 3650 DJo		
*WFHV Green Bay, Wisc.	6-20-59 1120 DR		
*WHDH Boston, Mass.	6- 2-60 1090 DR		
CKSO Sudbury, Ont.	9- 4-58 1200 JD		
CKX Brandon, Man.	1500 R.C.		
CKBI Prince Albert, Sask.	1100 RC		
CJFB Swift Current	1200 CB		
LRI Buenos Aires	7- 8-55 5500 BB		
CMHQ Santa Clara	7- 8-57 1750 BH		
CMBF Santiago De Cuba	1-11-58 1100 CR		
XEJ Juarez, Chih.	6-17-57 1000 MF		
XHGC Mexico City, D. F.	1900 RC		
YVKA Caracas Venez. S. A.	4000 RC		

NEW CH. 3 RECORDS

KYW Cle. O.	2150
(Tie) DJo	RC
WRCV Phil. Pa.	2400 RC
WCAX Burlington, Vt.	2500 RC
WSAZ Hunt. W.VA.	2200
(Tie) DJo	RC
XEPB Mont. Mex.	1550 RC
WSAV Sav. Ga.	2400 EH
CFRN Ed. At.	2550 RB
CMKJ Cuba	1550 DR
KEYT S. Barb.	1750 DJ
KDLO Gard. C.	1410 DR
CKSO El.Lk.O.	1175 DR
CBWT Winn. Man.	1000 RN
CKOS Yorkt. SAS.	1300 BJ

NEW CH. 4 RECORDS

WTVJ Miami, Fla.	1690 CD
XHTV Mex. C.	1983 MF

Channel 5 Record Holdrs

R. Cooper & J. Dillon-7
D. Johnson & E. Shorey-5,
D. Ruland-4, D. Jano
& G. Simkin-3, N. Erint
-2, J. Cody, E. Hepp,
F. Dombrowski, R. Boyd,
N. Doyle, G. Girard, C.
Bays, B. Brown, B. Rauch,
B. Draub, CR French
F. Hill--all-1.

These records and
standings taken from
past Bulletins and
letters received by me.

* New Records

A VERY MERRY CHRISTMAS AND HAPPY
AND WONDERFUL NEW YEAR.

Send me your 2-5 record
you have broken and
your 6-13 records and
all your UHF standings,
to me by Dec. 26.

Frank Wheeler, Box 176, R. D. 5
Erie, Pa.

AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION

Art Collins-President
68 Amber St.
Buffalo 20,N.Y.

King Schafer-V.Pres.
360 Zimmerman Blvd.
Kenmore 17,N.Y.

TV-DX

FCC NEWS

Dec 6, 1960

FCC GRANTS

Ch 9 Nelson, B.C. Can.

Ch 11 Trail, B.C. "

Ch 13 Twin Falls, Idaho 562 Watts..

Ch 15 Poplar Bluff, Mo. 229Kw-115Kw.

Ch 27 Portsmouth, Va. WYAH-TV 17.4Kw

Ch 43 Tulare, Visalia, Cal. 269Kw-186. Ch 25 Eau Claire, Wis. 4.77Kw-2.58Kw

APPLICATIONS.

Ch 5 Mt. Sentinel, B.C.

Ch 4 Saddle Mt. B.C.

Ch 3 No. Battleford, Sask. 3.9Kw-2Kw.

Ch 11 Mont Tremblant, Que. 600W-300

Ch 21 Hanford, Cal. 12.5Kw- 7.5Kw.

CALL LETTERS ASSIGNED.

KEFS-TV Ft. Smith. KSLN-TV Salina, Kan. KOAP-TV (Ed.) Portland, Ore.

KVLS (TV) Flagstaff, Ariz. KAIQ (TV) Ed. San Antonio, Texas.

WLFA (TV) Alpena, Mich. WYAH-TV Portsmouth, Va.

Many Canadian TVs have request in for power boosts-- a few, CHCA-TV, CKMI-TV CFCM-TV etc. (many never get it.) I could fill a page on the power boost request, to no avail !!! The "high tower" situation is always a FCC topic.. This goes hand in hand with the power boosts etc.. The Canadian stations are also putting up quite a battle for Color TV.

The FCC has recently deleted some 26 UHF construction permits, and deleted the call letters. These are stations that never did hit the air. To date there is a total of 234 UHF's that have gone to the showers !

... NEWS BITS....

We are glad to hear that Walter Spaulding is up and around, and plans to go back to his job soon... Also a speedy recovery to Dee who has been suffering from a bad case of Laryngitis. (Don, how does it feel, to have the little woman unable to yell back at ya !) Hi!

AIPA MEMBERSHIP DRIVE

Tom Hidley's column covers this very good. To add to it, we are going to offer a one year free membership to any AIPA'er that can get 3 new members to join the club. The drive will go for 3 months, starting with January 1961. Get in touch with your friends, and try to interest them. Use the application blanks that appear in this month's issue. A record of each new member will be credited to you as they join, when you have three it will entitle you to another year, starting with your expiration date. Lots GO- and Good Luck...

Re-newal- James Stacey-Jefferson, Wisc. (2nd. Yr.)

WELCOME to the following new members-

C.U. Phillips 32 Sandhurst Crescent, Kingston 6, Jamaica. W. Indies.

(C.U. has been 30 years in Radio and FM)

David Davis. 63 Midchester Ave. White Plains, New York.

Douglas Thomson. 77 Bridle Path Circle., Ludlow, Massachusetts.

Jay Dee Lutey. 407 So. Webster., Kimball, Nebr.

Ed G. Farrell. 36-17 171 Street., Flushing 58, New York. Ed is a member from a few years back. Welcome back into the fold.

We are in need of a editor to handle the Souther DX Column---Any volunteers ???? Contact King or myself....

MERRY CHRISTMAS AND A HAPPY NEW YEAR TO ALL.

Art Collins.

Probably one of my greatest thrills in T.V. Dxing happened many years ago. In fact, it was in May of 1954. I happened to have my lazy X antenna pointed west trying to see if I could find any other station showing besides our one local at that time in this area which was WSAZ 3. The time was 12 o'clock noon. I turned back to channel 2 and to my great surprise I saw a large round test pattern with the picture of Buffalo Bill on it. At this time I did not know what a DXer was nor did I know what a Verie was. For the fun of it, I wrote to the station showing which was KFEL 2 (now KTVR 2) of the old Cody network. For the next 2 or 3 years, probable KFEL was seen be me much more than any other stations. After this thrill of seeing a station 1200 miles away I began to look every day.

In about 2 years, I had received and verified 96 stations and 36 states and 3 countries. One day I was watching CMA 2 out of Cuba, when all at once the call letters XEW 2 cut in over it and remained for about 2 minutes on a slide. I knew it was from Mexico but didn't know where it was located. I remembered an old sample copy of a bulletin the Newport News Radio Club had sent me, and that it contained a list of TV DXers. I searched and found it. I seen such names as Robert Cooper, Bob Seybold, Ed Rugel, Hank Hollbrook and others submitting material to this particular section. I picked Ed Rugal's name and wrote him asking if he would please send me the address of XEW. This Ed did and down through the years we have remained steadfast friends. Through Ed I joined the AIPA. I have always been very glad I wrote to Ed because he helped me many many times with my early DX problems and had it not been for his pointing the way I wouldn't have been a member of our fine club today. How about hearing from you Ed?

It has been a long time ago since that day, nearly eight years ago when my old 12½ inch Majestic Brought me my greatest thrill of DX

Since then I have used 7 or 8 different types of antennas and worn out about 6 or 7 TVsets but it has been worth it many times over. Still today, I get just as much thrill as I did back when receiving a station. This is how I come to join the AIPA. How did you? If you write me I will use your information in this column from time to time.

Australia has had TV for 4 years. There are now 16 stations and 1.1 million sets or 1 set for every 9 persons. Regular U.S. Programs with commercials or non-commercial programs of the government run stations can be seen. Viewers pay 11.20 per year per set to finance the government stations.

Until next month
73's from
"The old Buckeye"

Rank Column
December 1960

compiled by Walter W. Spaulding
R.D.# 3 Box 168 Cardington, Ohio

As I have nothing much to report this I hope Frank won't mind if I use the bottom half of his sheet to put in the following.

For Sale; Heathkit Professional Stereophonic AM-FM Tuner, model PT-1. Unit in excellent working condition as proven by the receiving of 90 FM stations within a month, November with out any skip. Set has tuned RF on AM & FM 16 tubes in all-----the best for DX or HI FI. See a Heathkit catalog or ad for complete details. The price \$130.00. It has picked up a station educational with 10 watts power 35 miles distance daily. If any more information is needed write to this editor

Need information for Rank column as nothing to report this month.
Walter W. Spaulding
RT # 3 Box 168 Cardington, Ohio

Frank Wheeler, Erie, Pa.---TROPS, Oct.26,WNEM-5;Oct.29,WJIM-6
WNEM-5;Oct.30,WILX-10 WJIM-6 WSYR-3;Nov.13,WSYR-3;Nov.19,WJIM-6;Oct.20,
WSYR-3. His log is now at 140.

Walker Ray, Baton Rouge,La.---Es,July30,KPHO-5 KGNC-4 KOB-4 KOA-
4;TROPS,Aug.13,KTAG-25 KTOK-11 WJTV-12 WDAM-7 KSLA-12 KNOE-8 KFDM-6
KPAC-4 WALA-10 WKRG-5;Aug.6,KRLD-4.

Carlton Howington, Uniontown, Ohio---Sept.6,TROPS,WSAU-7 WHEN-8;
Sept.7,WFBM-6 WNBQ-5 WBKB-7 WLWI-13 WJZ-13 WBAL-11 WFIL-6 WBOY-12
WTOP-9 WNBK-12 WHEN-8 WHEC-10 WROC-5 WBIR-10;Sept.WFIL-6 WCAU-10 WJZ-
13 WNBC-8 WJAR-10 WVET-10 WAST-10;Sept.21,KRNT-8 WISN-12 WITI-6 WISH-8
WBKB-7 WREX-13 KWWL-7 KCRG-9 WNBQ-5;Sept.25,WTOP-9 WBAL-11 WJZ-13 WNBK-
-12 WOAY-4;Sept.26,WCAU-10 WGAL-8 WJZ-13 WRC-4 WHIS-6 WOOD-8;Sept.27,
WGAL-8 WVET-10 WLSL-10 WHIS-6 WCYB-5. His log is now at 171.

Donald Ruland, Holly Hill, Fla.---TROPS,Sept.6,WIS-10 WBTW-8;
Sept.9,WJBF-6;Sept.15,WMAZ-13 WJBF-6 WIS-10;Sept.16,WAGA-5;Sept.19,
WJBF-6 WIS-10 WBTW-8;Sept.21,WFSU-11; His log is now at 172.

John C. Dyckman, Canfield, Ohio---TROPS,Nov.19,WJW-8;Nov.20,WFMJ-
21; He writes that as of Nov.16 at 5:00 PM Youngstown, Ohio has got a
new station, WXTV-45.

Thomas J. Hidley, Chicago, Ill.---Ms,Oct.30,WCBS-2;Nov.6,WKY-4;Nov.
13,KPRC-2;Nov.25,WOAI-4. TROPS,Oct.29,KWWL-7;Nov.7,WHO-13 WICS-20;
Nov.12,WLWT-5 WSPD-13;Nov.13,WCPO-9;Nov.21,WNDU-16 WANE-15 WKNX-57
WKJG-33 WSBT-22 WTVS-56 WPTA-21;Nov.23,WLBC-49.

David Pomeroy, Overland Park, Kan.---Aug.2,KVOO-2;Aug.3,CJIC-2
KTVH-12 KOAM-7;Aug.12,KOAM-7 KOMU-8;Aug.22,KVOO-2 KWTW-9 KOMU-8 KYTV-3
KOAM-7 KOLN-10 KODE-12;Aug.23,KETV-7;Aug.26,KTVO-3 KETV-7;Aug.27,
KOLN-10 KOMU-8;Aug.29,KELO-11 KOLN-10 KETV-7;Sept.1,KOLN-10. His log is
now at 96 with one new.

Ronald Boyd, Truro, N.S.---MsJune4,WCBS-2;June5,WCBS-2;June11,WRC
-4;TROPS,Sept.26,WHDH-5 WJAR-10 WLBZ-2;Sept.27,WCSH-6 WCBS-2 WBZ-4 WRCV-3
WTIC-3 WMUR-9 WABI-5 WJAR-10 WNAC-7 WGBH-2;Sept.28,WBZ-13 WHDH-5 WJAR-
10 WCBS-2.

Billy Draeb, Kewaunee, Wis.---TROPS,Aug.24,WBEN-4 WKBW-7 WICU-12
WABC-7;Sept.6,WFBG-10 KYW-3 WIIC-11 WCPO-9 WTOL-11 WICU-12 WSTV-9
WNBK-12 WTRF-7 WKBW-7 WBEN-4 WBNS-10;Sept.19,KRNT-8 KCRG-9 KMSP-9 WTCN
-11;Sept.20,KDAL-3 KELO-11 KOMU-8 WHO-13 KDPS-11 KRCG-13 KVTW-9 KROC-
10 WGEM-10 WTVH-19 WKOW-27 WMTV-33 WMBD-31 WEEK-43 WTVO-39 KNOX-10;
Sept.21,KTVO-3 WOI-5 KHQA-7 WSIX-8 KETV-7 WTHI-10 WBNS-10 WHAS-11
KPLR-11 WTCN-11 WTOL-11;Sept.23,KTVH-12 KAKE-10 KMFC-9 KWTW-9 KOED-11
KWIL-8 KODE-12;Oct.5,WHO-13 KRNT-8 KMBC-9 KUON-12 KTVH-12 KAKE-10
KOLN-10. His log is now at 266.

Bill Nieman

16 Wasson Street

Buffalo 10, New York

AIPA

December 1960

FM-DX

David Janowiak
4312 So. 47 St.
Milwaukee Wis.

The FM-DX season has sunk to one of its lower points and probably will at anebb for the next few months. However the brilliant rise of FM will not take a vacation. A part of this month's column will be devoted to an article that appeared in a recent Radio Electronics issue. I would like to thank those who took the time to write to me about FM info. This column will continue to survive very nicely during the off months if the enthusiasm of members will also continue.

FM STATION NEWS

WJZZ-FM 99.9 is on the air in the White Plains Area. Writes Art Frier. This station operates from 4 PM to 2 AM, seven days a week. Station director of the Fairfield Conn. station is Dave Brubeck, so jazz enthusiasts, take notice.

Dennis Smith reports a few additions and changes from the California area.

KPEN 101.3 San Francisco up to 120 KW ERP as of OCT. 9.

KPUP 106.9 San Francisco changed call to KHIP and has a jazz format.

KQBY 95.7 also San Francisco changed call to KHIP (is now KQBY)

KBBM 101.7 Hayward, Cal. on the air with 833 watts ERP.

KPGM in Los Altos is on at 97.7

KFRC 106.1 in San Francisco has been making tests.

The following news comes from Ferdie Dombrowski in Okauchee.

WISN 97.3 due on this month 3650 watts, 990 ft. antenna in Milwaukee.

WBAY 101.1 on around mid November. from Green Bay Wis.

WIBC 93.1 Indianapolis up to 24KW and 360 ft. antenna.

WTVB 98.5 Coldwater Mich. up to 7.9KW and a 185 ft. tower

WMAX 100.5 Grand Rapids on with 7124 watts

About nine or ten fm stations are due by mid-summer in the Milwaukee.

Waux, Wtos, Writ etc. have permits and plan target date soon. Rumor is that

WMKE new STATION in Milwaukee is broke.

FM FINALLY MAKES IT

Well, maybe tv will go all UHF, but FM seems to be here to stay according to an article in the Nov. issue of Radio Electronics magazine. Most of the AIPA members have probably seen the article, but I will list some of key ideas.

FM was officially dead about four years ago. The rapid rise of television was responsible for decline of FM stations and receivers. However, the boom in recent years in FM has been explained by the high-fidelity conscious people. The rapid rise has seen some cities with 28 FM outlets. The FCC stated that if the applications keep coming in at the present rate, there will be no more applications to fill in cities of a million by the end of 1960.

About 2 million receivers were sold this year for FM, with the most being sold as part of a package with stereo. The year of 1961 promises to be an even bigger year for FM receiver sales. The thirty dollar FM receiver has made the scene and will soon be a must for the "average" household.

As added proof of the FM boom, cars are now being equipped with FM receivers, some FM only. Blaupunkt, a German design FM is now in use by some of the past reports to this column.

The article concludes that FM will never pass up AM, but the gap is slowly narrowing. As far as this writer is concerned it has passed up AM. I happen to be a great music lover and I find the FM band to be a heaven for good music. We all realize that the fidelity of AM can be heard only to about 5000 cps, while FM fidelity can be realized to about 12,000 cps.

FM- DX
REPORTS

Reports are on the scarce side of course, but we still seem to have some alert young men turning the dials during these difficult times.

Ferdinand Dombrowski has upped his log to 52 by snagging WBAY. Ferdie says that he doesn't have too much time for FM DX (who does lately). Dombrowski works and attends evening school so his time is scarce indeed.

Albert Kopec of Hinrod N.Y. sent in a handsome list of 95 stations logged since March 1960. All of these stations have been received via tropo. The most outstanding DX was done on Aug. 25, and Sept. 8. The report for those days follows.

Aug. 25. WDEL 93.7, WANN 107.7, WCAO 102.7, WRLN 102.1, WUTC 92.9, WEEH 100.7, WGAL 101.3, WOHI 104.3, WFMP 99.7,.

SEPT. 8-- WCAU 98.1, WOR 98.7, WNEW 102.7, WNBH 98.1 WPAC 106.1 WMBI 95.7, WXCN 101.5, WECN 105.9, WPRO 92.3 WPJB 105.1 WEEI 103.3, WGBH 89.7.

Other new stations for this report period include, WDAC 94.5, WHAT 96.5, WDEL 93.7, WFLN 95.7, WNYC 93.9 WRFM 105.1, W MZ 100.1, WSNJ 98.9, CKLC 99.5, WTOA 97.5, WYSL 103.3, CFCF 106.5, WNCN 104.3, WFIL 102.1, WCCB 96.1, WCMF 96.5, CKLV 96.9, WREO 96.9, WHDL 95.7.

Allen has 53 of his 95 stations verified. I am sorry that I can't help you on your questionable ones Allen, but I will check on them through some other references.

For anyone interested in FM DX, I would suggest sending for the thirty cent booklet put out by the Apparatus Co. in Conn. This book has a very up to date list of FM stations and some good info on their line of FM antennae, which appears to be the best FM antennae line on the market.

Locally, I have logged a lot of FM and TV DX on a few good tropo days, but nothing new. NOV. ~~Sept.~~ 12 brought a brilliant aurora display from 2400 to 0030, but nothing was seen or heard of significance. I confined most of my dxing on that date to FM and I heard numerous bursts over a Chicago station around 101.1. The letters W and I were heard but never a full call. Meter skip via FM is not too easy. Some unseasonable weather for November brought some 400 mile tropo on TV on a few days but m's has proved to be a bit disappointing. The Chicago channels bomb in around 0500 and kill most m's. The signals of my semi-locals are still too strong as far as I am concerned. I will be looking forward to the Winter E's season as I may be able to hear FM skip for the first time.

TECHNICAL DATA

This section of tech data will probably have to be shortened due to space. The 72 ohm type line is used mainly for extremely noisy areas. The actual loss per foot ratio is about the same as good grade 300 ohm line. A special shielding over the 72 ohm line makes it difficult to have car ignition, static from appliances etc. to be picked up. RG 59-U line is the ideal line for such noisy areas. When a line in excess of one-hundred feet is used, RG-11 -U is recommended. Since most tv antennae are 300 ohms a balun network must be employed when 72 ohm line is installed. The balun is merely a transformer with a turns ratio of 2 to 1 to step up or down an impedance four times the other. This can easily be seen by simple circuit analysis of transformers. The balun can be purchased from most wholesale houses. A unit must be employed at the antennae terminals and again at the receiver input if the receiver does not have a 72 ohm terminal.

I would like to thank Dennis Smith, Ferdie Dombrowski, Art Frien, and Al Kopec for their fine letters. I hope to answer all of you someday.

BEST OF DX TO ALL

7

AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION

(1)

Dec. 6, 1960

"1961 MEMBERSHIP DRIVE"

In the last two years The American Ionospheric Propagation Association has gained many members through publicity in magazines, and newspapers. Now with our membership it can be made possible to increase the ammount during this coming year of 1961.

The efforts of each member in each state, or province would interest one friend or neighbor in TV DX, or FM DX. Could at least increase the membership 20% in this coming year.

I noticed in our last membership list dated 9/17/60. That some states don't have a DXer listed, others only one to three members. Many have five or more. New York has fourteen members, also Illinois has fourteen. New York and Illinois are running neck and neck. So let us all start the wheels a rolling in each state and province for a real membership drive. Every member can take part in this 1961 contest for new members.

Some where in the fifty states, and Canada, some one is DXing that doesn't know that The AIPA exists. Now is the time to look for folks interested in DXing. One of the first clues to look for, is a tower, and unusual ammount of double stacked antennas. Second, Show your pictures of ID slides, patterns, and loggings to your local newspaper. Create an interest that will advertise the AIPA, and the wonderful success of bringing in long distant TV and FM stations. Publicity of this kind will bring you many inquiries. This not only increases the membership, but helps those who are seeking an interesting worth while hobby.

Third: Visit your local TV and FM Stations. Show your pictures, and loggings of long distant stations. Your visit will stir up interest. This will help DXers all over the country when they write for verifications. With all these contacts and publicity that you have will surely inspire those that you have called on.

All states, provinces of Canada, and foreign countries, that have gained one or more members each month, will be published in this bulletin. A rank column will appear showing the efforts of each member who are participating in this contest.

When the membership drive is over, you will have that self satisfaction in being a part of THE 1961 MEMBERSHIP DRIVE.

Art Collins, our President, also King Schafer our Vice President, will give you more high lights on the following pages, regarding The 1961 Membership Drive. Feel free to write us any time. You will find extra application blanks in this bulletin. Be sure your name is also on this application, that you will get credit for a new member. Your letters and comments will be appreciated.

Wishing all of you, A MERRY XMAS AND A PROSPEROUS HAPPY NEW YEAR.

Thomas J. Hidley

"TV CORNER" Did you hear about the politially minded ion who hearing there was going to be an electron, went to the poles and volted?

6117 N. Canfield Avenue

Chicago 31, Ill.

NEW S FLASH: ART & KING, really have some good
news to offer: SEE OTHER PAGES

"Your AIPA Monthly Meteor Scatter Column"
Conducted by: Billy Draeb Ellis St. Kewaunee, Wis.

Due to the length of this column this month I get right to the reports.

Dave Swanson, Chicago, Ill.---Oct. 21st KGNC-4; Nov. 15th WCBS-2. Thanks Dave.

Dave Combs, Columbia, Mo.---Aug. 2nd WJXT-4. Thanks Dave.

Bill Draeb, Kewaunee, Wis.---Oct. 30th WOAI-4(1,220mi)(3pts.); Oct. 31st WCBS-2, WFMY-2; Nov. 2nd WBTW-3; Nov. 5th WCBS-2; Nov. 6 WKY-4; Nov. 22nd WKY-4; Nov. 24th WKY-4, WLBT-3, WWL-4(1,050mi)(2pts).

The point standings are as follows so far: Dave Swanson Chicago, Ill. 2 points; Richard Nieman Buffalo, N.Y. 2 points and finally Bill Draeb (me) Kewaunee, Wisc. 14 points.

Now you may wonder why I put myself at the bottom of the list and that I have the most points. I have decided to declare myself ineligible to receive the prize money on May 15, 1961 should I have the most points then, therefore the person who has the second most points would receive the loot (\$5.00).

I just recently received a letter from Bob Cooper of DXing Horizons. He asked me if I would be of assistance in helping him get a little information from you Ms Dxers. Here's the letter he sent me:

"Finding a few minutes on my hands I wanted to pass along a few Meteor Scatter Observations from here, and ask that you use your column to enlist me a little aid.

Work is progressing nicely on a system which should make the months of DXers Drool from coast to coast. We have high hopes of erecting a complete scatter system which will produce consistent picture and sound from one of two stations from this point. At the present time we are working with KMID in Midland, a distance of 1141 miles from Modesto.

Here is how it works. When completed, the meteor scatter antenna array will consist of a pair of 22 element yagi arrays, each of which consists of two 11 element long yagis by the TACO company. At the present time we are using only a single 11 element yagi mounted 50 feet above the ground. Two yagis will be erected on one 50 foot tower this week, and I hope by January 1, a second set of 11 element yagis will be mounted on a separate tower, spaced away from the first for diversity reception. At each antenna phasing point (where the two 11 element yagis are phased together) we are mounting a Blender Tongue CB channel two booster. This booster does not give unusual gain, but it does have a very low noise figure which gives us a few db head start on the receiver. The signal is pushed down 75 feet of RG 8 coaxial cable, and then into another B-T CB Booster for channel two. Lastly it enters a filter which does nothing more than reduce the stray pick up here from channel 3 in Sacramento (as the strong signal on three tends to slop over onto two and thereby reduce the AGC and gain of the set, which makes it less effective on weak signals). From the filter into the Mattison receiver which is at the present time quite standard. By the time the system is working properly there will be a special receiver in place of the Mattison.

Now for the results to date, so much for background. We are installing a laboratory "pen recorder" which will automatically give a written

(continued)

To date we have been using one of the S meters shown in the November DXH. Tests are now run between 0615 PST and 0830 PST most days. In the 2 hour and 15 minute period over the past ten days of observations, the following has been noted.

- (1) Between 0630 and 0730, and as a separate time unit; 0730 and 0830 PST, our scatter system averages a minimum of 5 minutes of solid reception from KMID per each of the one hour periods. This is approximately 8.5 percent of the time over the 1141 mile path.
- (2) Between 0730 and 0830 PST, we average 6.5 minutes of copy from KTVR in Denver, a 940 mile path. As an example, as I am writing this now, KTVR has been solid video with fair audio (rapid fluttering and fading as characterized by scatter reception.) (Note. Not meteor scatter... Just plain scatter, which is a term denoting a more solid or consistent type of scattering signal) since 0816, and it is now 0823.

The antenna is beamed (fixed) on Midland, however the other stations between Midland and north as far as Montana are frequent burst visitors. In a period of a week I believe all have been identified in the KVOO, KCKT, KNOP, KTWQ, KDIX, KOOK region, as well as KUTV, CHCT, CKCK and KFEQ.

One of the amazing things about scatter reception is its consistency. However with the fairly broad lobes we have on any yagi antennas any of us are ever likely to use, there will always be the jamming problem. Zero and ten Kc. ~~#####~~ interference from several stations is often the only degrading factor on an otherwise good signal from KMID or on occasions KTVR.

That should fill you and the other AIPAc's in on what we are doing here. Unfortunately we can't devote as much space as we would like to at this time in DXH, but we are starting a series in January on the entire project.

For comparison purposes, I would like to make checks by mail with other meteor scatter enthusiasts in the AIPA, on daily burst counts. To date we haven't had a bad day (bursts average 50-70 per hour, with many overlapping to give us the scatter affect) but I would like to check with AIPAer's on relative counts per day. Think you could mention it in your column?"

And there you have it, the letter from Cooper in its entirety. Now lets get on the move and send Bob a record of the bursts we see each day.

Due to the length of Bob's letter I will take up ~~###~~ next ~~###~~ what I was going to take up this ~~###~~. 73's month month

Bill

[illegible]

Dec. 6, 1960

"TELEVISION OF THE FUTURE"

TV SYSTEM DEVELOPED FOR LONG RANGE. A television system described as capable of transmitting clear TV pictures over long distances regardless of interference has been developed for the army by Colorado Research Corporation, a subsidiary of Bell & Gossett Company, 8200 North Austin Ave., Morton Grove, Ill. It was announced not long ago, and appeared in The Chicago Tribune. I feel that this article would be of interest to all TV DXers, or anyone else interested in long distant TV reception.

Mr. R.E. Moore, who is the president of Bell & Gossett, stated the system may have wide applications in military communications, reconnaissance, and surveillance, in space technology, and ultimately in private industry. The subsidiary, Colorado Research have been awarded a government contract by the army supply agency to manufacture the system. It is stated that the system can send clear TV pictures long distances despite intense sun spot, lightning, aircraft, or other radio noise activities which normally interfere with TV signals.

The system called digital television transmission, may even transmit signals from vehicles traveling in outer space. Two activities merged. The new system breaks a TV signal into millions of "off-on" impulses every second, altho the impulses may be distorted by interference, they can be reconized by a special receiver which instantly rearranges them into a perfect picture. Be patient DXers, better and long distance TV is in the making.

" A CRANK UP TOWER THAT IS DIFFERNT"

KTV TOWER and COMMUNICATION EQUIPMENT COMPANY now builds a tower that has two guides, that can be bolted to one side of the triangle sections. A guide with "U" bolts is bolted to each 10 foot section. **ROTOR CARRIAGE:** This is the carriage that glides up and down from the top to the bottom sections, and carries the rotor, mast and antennas. The rotor bolts to the carriage. It is designed to fasten to a Hy-gain rotor. However a plate will easilly adapt to the platform to use any other type of rotor. Carriage is approx. 48" long. The carriage has the mast holder so easy turning of the antenna can be accomplished. Carriage is made of electric welded steel tubing and angle weighs approx. 20 lbs.

Top section is made of electric welded steel and angle. It is 10 foot long, which includes the pulley, locking device and is mounted on the top part of your tower section guide. A winch of a high quality is used, with a stop on it, and can be easilly reversed, when necessary. Cable is 3/16" 7 strand, 1500 lb. test, and will not coil up on release.

HY-TRACK is the answer to a DXers problems. Easilly cranked down to eye level for servicing your antennas, or during high winds.

Another advantage, if you should own a flat roof building, two stories or more, you can start your track for your carriage at roof level, facing from roof side. This will save you the price of several sections of HY-Track guides. 20 or 30 foot can be anchored to your building with angle supports, and aherman bolts.

If you are interested in this type of tower. Will be glad to have you write me for further information.

Wishing all of you a Merry Christmas and A Properous Happy New Year.
Thomas J. Hidley 6117 N. Canfield Avenue Chicago 31, Illinois

*****TVI CAN BE LICKED*****

The following is a partial list of TV manufactures supplying filters where required and details for obtaining filters free of charge, in most cases Drake model TV-300-HP are furnished.

1. *ADMIRAL Send model and serial number plus customers name and address to Admiral Distributors Division of Admiral Corp. 5780 Federal, Detroit, Mich.
2. *GENERAL ELECTRIC Write to the nearest GE appliance Dist. send model and chassis number, they will supply modified Drake Filter on all sets after 1953. They will supply a filter for your modification for sets made before 1953.
3. *MOTOROLA Motorola, 4545 W. Augusta Blvd., Chicago 51, Ill. Attn; Leroy Wolff, Service Dept. Customer name, model and serial numbers. Customer buys filter and sends invoice to Motorola and refund will be made.
4. *PHILCO Contact our nearest Philco Distributor and ask for Drake Filter.
5. *RCA Contact the nearest RCA Service Company in your area. Furnish name of customer, address, model and serial number of TV receiver; they furnish filter free.
6. *SILVERTONE Contact Sears Service Dept. and request installation of of filter.
7. *SPARTAN Spartan Division Of Magnavox Co., Ft. Wayne4, Ind., Attn. D. R. Barnett, Service Department. Name and address of Spartan Dealer. They will then write dealer for model and serial number and will ship Drake filter to dealer.
8. *SYLVANIA Sylvania Electric Products, Inc. Radio and TV Div., 700 Ellicot St., Batavia, N.Y., Attn; E. Moeser, Customer Service Coordinator. Send name and address plus model and serial numbers of customers set.
9. *WESTINGHOUSE Westinghouse Electric Corp., Radio and TV Div., Metuchen, N.J. Send customer's name and address and they will ship Drake filter to amatuer.
10. *ZENITH Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Ill. Attn; B. J. Marohnic, Service Div. Send name and address of customer with model and serial number.

John Dyckman WPE8BY

A lot of news here this month so I'll start right off with the news by country as I've done before.

ALGERIA: 2 new stations I've never seen listed before are Chrea on channel F6, and Tizi-Ouzou on F7 with 300 watts.

ARGENTINA: new stations here as TV finally gets into full swing, are LV89-TV, ch. A7 in Mendoza, LU86-TV, A8, Mar del Plata, and the following in Buenos Aires: LS85-TV ch. 13, LS84-TV ch. 11, and the ch. 9 station I mentioned before, LS83-TV. CBS has formed a production company down there to supply ch. 13 and any other stations who want it with programs: filmed, taped and live. All of the new stations are commercial. Until now, the only station in the country has been LR3-TV, ch. A7, which has been on since 1951.

AUSTRALIA: present lineup of stations shows 14 now operating in the state capitols. Now the A.B.C. (Australian Broadcasting Commission) is looking toward establishing stations in 13 other cities. A new problem which may delay this is the old nemesis too few channels. The present stations all operate on channels 2, 7, and 9. New stations will be welcomed on ch. 1 by all IDXers since this channel's video freq. falls in our "below 54 mc" IDX region. 70% of the nation's population is served by the present 16 stations, (I forgot the 2 in Tasmania). I'll have more info next month.

BERMUDA: the IDXer I mentioned from Hamilton uses a British-made set on American standards. This island adopted our 525-line standards and the only locals are on chan. A10. Commercial ZBM-TV, CBS affiliate, shares time with an AFRTS station on the same channel.

CANADA: I've just heard mention of a new grant by the BBG, CJOH-TV in Ottawa. No ch. mentioned. CHSJ-4 wants a satellite at Cameron Mt. N.B. on ch. 13 with 46 kw. CHLT-6 wants a ch. 3 sat. at Pivot, Alta with 3750 watts. CKX-5 wants to raise its power to 53.9 kw from 19.3 kw. An application has been filed for a station at Ste. Anne de la Pocatiere, Que. This should be ch. 10. The CBC has applied for a station at Coleman, Alta. CFCN-9 went on the air Sept. 9 in Calgary, Alta. Sorry, that's ch. 4, not 9. This is the only Canadian city where 2 independent stations are competing. In all other multi-sta. cities the CBC station competes with one independent. CKPG-3 granted in Prince George, B.C. with 210 watts. They're investigating the feasibility of building satellites in neighboring communities. More applications: Edmonton-5, Halifax-5, and 3 low power stations, at Chicoutimi, Que. ch. 2; Roberval, Que. ch. 8; and Antigonish, N.S. ch. 9. The ch. 2 and 8 are to be satellites of CKRS-12. The Toronto Telegram station CFTO-9 is due on Jan. 1st. CBXT-5, Edmonton due in the spring. CHSA-2, Lloydminster, Sask. on by now, I'm sure. The govt. said no color will be telecast until it has become successful in the USA. They point out that after 7 years, only 1/2 million color sets are in use here. CFPL-10, CHEK-6 and some of the newer stations are equipped for it, but there'll be no color now. I should have news on the second TV network next month, the final decision I think. It will start with 8 stations.

COLOMBIA: this country has plans for 16 new stations this year, most of them directional but with some pretty high ERP's. On the low band there will be a ch. 2 sta. at Santa Marta with 1000kw, dir., Pasto ch. 2, 50kw dir., and Las Jurisdicciones ch. 4, 500kw dir. This brings the country's total to 24; only 4 on the low band.

CUBA: Dennis Smith reports that a radio newscast he heard said only 2 Havana TV stations are still on the air. The rest of Cuba is probably just as bad off. The owner of the CMA got harsh words from Castro when he left his network in bad physical condition

when he left the country in a hurry. Poor Fidel!

ECUADOR: I got an answer from HCJB-TV finally. They were on the air in Aug. 1959 for 3 weeks on a temporary permit. They were on ch. 2 with special programs for viewing at the national fair in Quito. They have applied for a permanent license to operate on ch. A2 with 7kw. Apparently the govt hadn't decided a definite course for TV development in Ecuador. HOWEVER, recently I heard that a ch. 4 station is to be built at Guayaquil partly financed by ABC; 2kw.

W WEST GERMANY: the UHF-TV netw. is to begin Jan. 1st. It will be commercial and govt subsidized until it can stand on its own feet. It will serve 1 million people. The present VHF netw. is govt subsidized, serves 5 million, and has only 10 min. commercials a day. There is a heavy demand for UHF converters. FCC TAKE NOTE: all receivers built for some time have had all-chan. tuners, preparing for this. If the FCC had done this here in 1952, 97% of receivers in use would be ready for all-UHF reception NOW. We can't even buy converters anymore for the older sets.

NIGERIA: on Independence Day Oct. 1st, a semi-commercial station on ch. E2 went on the air in Enugu, E. Nigeria. Another station is to be built on the coast soon. The video is at 48.25mc so IDXers take note. Programming is from 7-10 PM daily. No ERP given.

NORWAY: ch. E9 at Bergen is on the air. Ch. E4 at Kongsberg should be on soon. Planned: Trondheim-E2, 100kw, 1961. Early in '61 I hope.

I have quite a bit more news but this is my last stencil and I want to get this IDX station and freq. list in this month.

CHANNEL B1: London 200kw; Belfast 12kw; Thurston (pwr. indefinite).
 " E2: Ruiselde, Belg. 100kw; Berne, Switz. 30kw; Saar 10kw; Oldenburg, F.R. 100; Biedenkopf, F.R. 20; Gunten, F.R. 100;
 " " Orebro, Swed. 60; Horby, Swed. 60; Vannas, Swed. 60; Madrid (power unknown); Also Nigeria, India, and possibly Malta, Rhodesia, and New Zealand.
 " E2A: Jauerling, Austria 60kw.
 " F2: Caen 80kw; Limoges 20#; Chaumont 20#; Troyes ? (all in Fr.)
 " R1: Moscow 40; Odessa 20; Leningrad 20; Budapest 30; Prague 5; Ostrava, Czech. 12; and 11 more in the USSR, including one in Vladivostok on the Pacific coast.
 " B2: Manchester 100; Plymouth 16 dir., and 4 low power stations
 FREQUENCIES: AUDIO: 41.25 (F2); 41.50 (B1); 48.25 (B2).
 " VIDEO: 45.0 (B1); 48.25 (E2); 49.75 (E2A); also R1

I've only gone up to 52.0mc since this will be a poor season. All Belgian stations operate with AM audio and positive video, while one source says they alternately use 625 and 819 lines. The E2 station there is Flemish, which sounds like Dutch, I guess.

CREDITS: Wireless World, Oct. issue; Broadcasting, various March, April, Sept. and Oct. issues; TV factbook, March; EBU Review, Oct. (#63); Call of the Andes, the HCJB monthly;

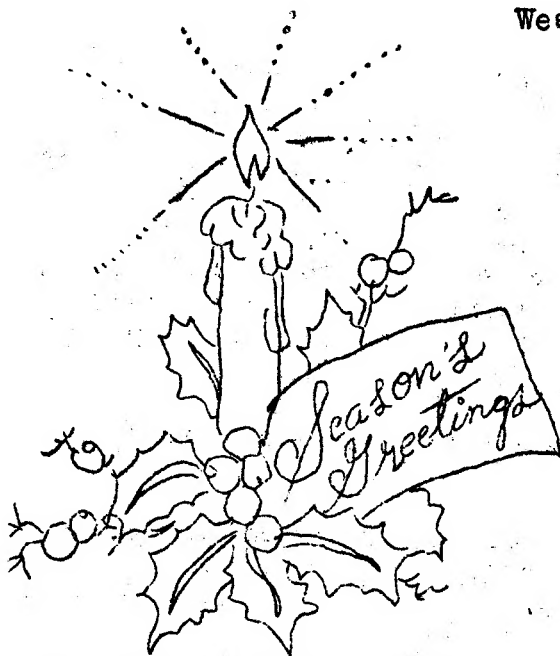
Dennis Smith, and Gordon Sinkin--thanks a lot, Gordon.

I might mention that Cyprus has a TV station on B1 with 1.5kw, and there is another E2 station in "Gottelborner Hohe", with an ERP of 5 kw or more. I don't have the definite power, and I don't know what country it is in, yet. New Zealand ch. 1, (which I'll call Z1 from here on), is apparently the same as E2.

I have atmospheric condition predictions for Nov.-Dec. which I just remembered now. Basically, it's just the hours at which to receive what part of the world on the 6 Meter band. Consult "CQ Annual" at your news-stand or public library. 73's.

FERDINAND DOMBROWSKI JR., 1335 Road B, OKAUCHEE, WISCONSIN

Western DX December 1960
by Dee Johnson, 146 Maddock Pl.
Longview, Washington



WELL, HI ! MERRY CHRISTMAS AND HAPPY
NEW YEAR TO ALL OF YOU..

Lots of letters from our western dxers
this month..guess you all took pity on
me last month, when I told you if you
want a column...then you'll have to send
me some info to put in it...well you sent
the info...and a great big THANKS goes
out to each and every one of you who
wrote.

ED HEPP of Tucson, Arizona sends in the best log report. One that we
only hope he gets a verie from..as it's the best catch in a long time.
On Oct. ~~XXI~~ 30th Ed got what appeared to be KHVH-4 by me...from
Honolulu, Hawaii.....he has written for verification. He saw a TP at
11:15 am..and it came in best from the S.W. The rest of Ed's log reads
Oct. 17th unid ch.2 and ch.6 from the south. Oct. 19, CKCK-2 and
KFEQ-2/Oct. 20th KPRC-2 and of course on Oct. 30th KHVH-4/ and KGBT-4
both new. Best of luck Ed.

CHARLES WOOD of Ashland, Oregon logged 2 new stations this past few
months...starting with his log report of Sept. 7, KIEM-3 by tropes and
KVIQ-6 by tropes/ Oct. 16, KCBY-11 new and ch. 10 new by tropes. Oct. 19
KNXT-2 by ms/Oct. 21, KNXT-2/unid ch. 4,5,6, all by Es/Nov. 25, unid
ch.2 by Es/and also unid ch. 4/ Nov. 26, KTWO-2 by Es, plus unids on
ch. 2 and 4.

JIM PIRCH of Richmond, Mo., says Dx picked up a little this past month
and on Nov. 13th he received KTVC-6 new and KAYS-7 new and KARD-3.
on Nov. 15th KARK-3 was seen. Log at 127 with 2 new.

DENNIS SMITH, DAVE CROCKETT & ALLAN PRESTON all of Southern Calif.,
called me on the telephone the other evening...and it was so nice to
talk to all three of you. I have a tape from all of you..now I must
answer it...hi...thanks millions for calling.

DENNIS SMITH , writes that there was some good tropes on Thanksgiving
day..which gave him a chance to do ~~xxxx~~ some dxing while he was home
from College. NOV. 24, KCRA-3/KXTV-13/KVIP-7/KOVR-13/KHSL-12 all
were seen by tropes.Dennis predicts he will soon have 100 stations
logged...hope so..

DAVID CROCKETT writes that on Nov. 26th KRON-4 went off the air at
approximately 7:38pm PST..they were off the air for 2 hrs and 45 min.,
The longest that any of his locals have been off the air. He thought
this might help some of you who thought perhaps you might have logged
KRON-4 at this perticular time. Thanks Dave.

ALLAN PRESTON writes that if anyone wants to tape Dennis, Dave and
himself..please do so..and the three of them will get together and
answer the tape.On Nov. 8, at 7:50 am Allan logged KSBY-6 by tropes,
and a unid ch.3. Thanks for the letter,tape..and call

MORRIS FOOTE of Middleton, Idaho didn't log any new stations this month, so maybe he'll get his 100th station this month. On Nov. 2 and 4 at exactly the same time he got a ms burst from KNXT-2. To answer some of your questions Morris...My rotator is a Alliance..only broke down once in 4 years...I like it quite well. Be sure and get a ball thrust bearing bracket support when you buy a new rotator..it will support the weight of your antenna. (the model # of my rotator is T 12)

Your way of reporting the audio and video is correct. Now to your log: Oct. 24, KMID-2 by ms/Oct. 27 KNXT-2 by ms/Oct. 28, KMID-2 by ms/Nov. 2, KFEQ-2 by ms/and KNXT-2/ Nov. 4, 10 and 11th KNXT-2 by ms/Nov. 12, aurora dx on chs 4-5-6..no ids. Nov. 14, KEDY-4 sporadic Es Nov. 15, aurora dx on chs 4-5-6 no ids./Nov. 18 KFEQ-2 by ms.

DAVE COMBS a new member from Columbia Mo., Welcome to the club Dave. Dave writes that he is 17..a senior in high school. He used to dx a lot on SWBC but now he is a TV and BCB DX fan. He uses a Finco H10-713 jagi fringe antenna atop a 30' pole. He has logged 26 stations since June 1, 1960. Log reads: Nov. 3, KPLR-11/Nov. 5 KPLR-11/Nov. 12, KTVS-12/WIBW-13/Nov. 13, KTVS-12/WGEM-10/Nov. 14, KTVS-12/KPLR-11/WGEM-10/KHQA-7/Nov. 15, WHO-13/KTVS-12/WGEM-10/KPLR-11/KHQA-7/Nov. 15, KTTS-10/Nov. 16, KTTS-10/KODE-12/Nov. 17, KTTS-10/Nov. 19, KTTS-10/KGEM-10/WHO-13/KRNT-8/Nov. 20, KRNT-8/KLBC-9/ all by tropes. Best of luck.

PERCY COX of Visalia, Calif., sends in a welcome report..dating back to June. So glad you get a little time to dx Percy..its so nice to hear from you. June 6, KVOO-2/KARD-3/KTVR-2/June 20, KETV-6/July 7, KVOO-2/KARD-3/July 8 and 9 unid ch. 2/Aug. 8, KMID-2/KEDX-3/KEDY-4/WBAP-5/Aug. 14, KKLY-4/ lots of burst on chs 2,3,4,5 in Aug. Sept. and Oct, but no ids. Bursts in Nov. also..but from San Francisco.

Your editor here finally found some Es on the tv set...the first since last Aug...I could hardly beleive my eyes. Nov. 26, KTVR-2/ unid ch.3,4 and 5...KOA-4/KOB-4/

no more news from here..thanks again to all of you fellows for writing..here's hoping we get some winter Es.

MERRY CHRISTMAS TO ALL OF YOU

DEE

Co-Channel Interference Column by Bedford P. Brown, Jr.,
2505 Rio Grande, Austin 5, Texas

I am very sorry to say that I shall not have access to a typewriter over the Christmas holidays and shall be unable to write a January column. The next Co-Channel Interference Column will, therefore, be in the February bulletin.

Again this year I am not going to have the time to send Christmas cards; therefore I would like to wish everybody a Merry Christmas and the happiest New Year possible.

Donald Ruland's new address in Kansas City is:
3344 Summit, Kansas City 11, Missouri

Unidentified Programs

David Combs, 909 Clayton, Columbia, Missouri

Thanks a lot, David, for the only report of the month. Time is C.S.T.

David received his unidentified station on November 19th, channel 7:

8:27-8:55am north, Laurel and Hardy

8:55am cartoon, "Flipping on Flapjacks"-definitely not KHQA.

David also reports that Morris Foote's channel 3 might be KTV0-3, Ottumwa, Iowa ~~Kirksville~~, Missouri.

That's about it for a very short column this month. Thanks again to David Combs for the lone report. Until February, best dx and 73's to all, Bedford